



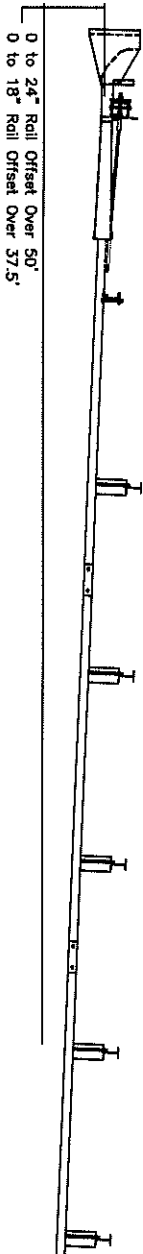
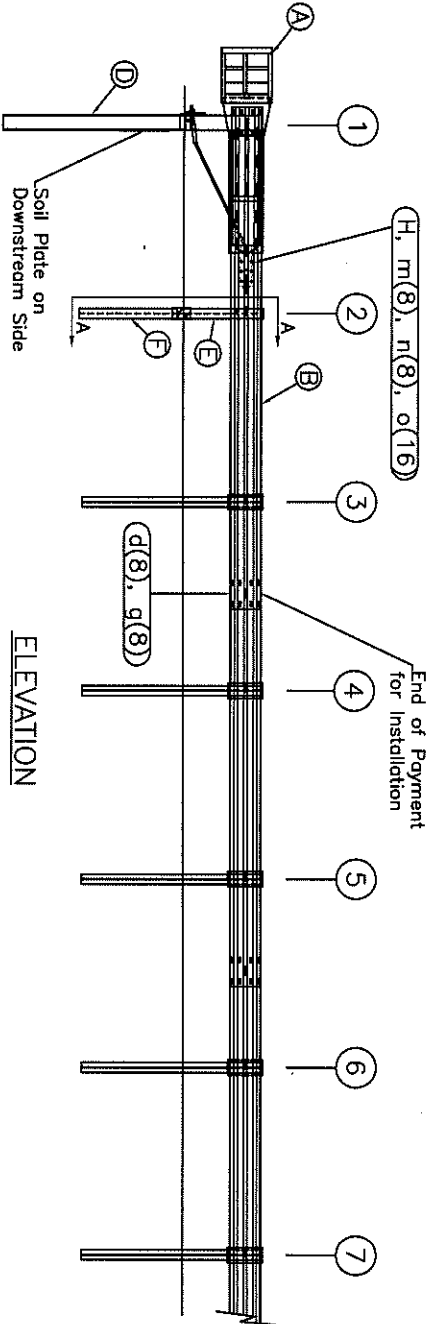
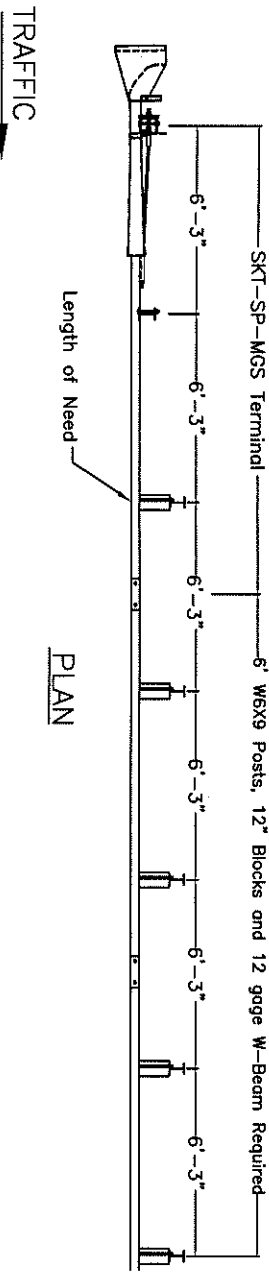
WASHINGTON STATE  
DEPARTMENT OF TRANSPORTATION

- ☒ Approved  
☐ Approved with revision  
☐ Rejected

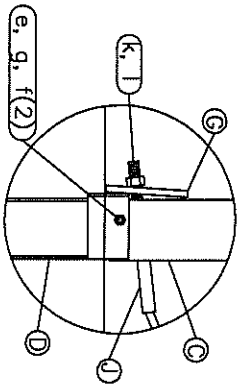
BY

DATE:

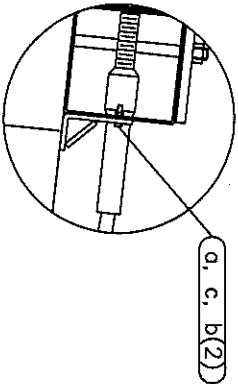
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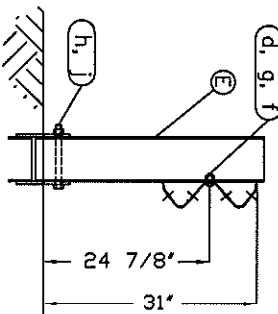
OPTIONAL FLARED INSTALLATION  
25:1 maximum flare rate



Post #1 Connection Detail



Impact Head Connection Detail



SECTION A-A  
Post #2

ITEM QTY	BILL OF MATERIALS	ITEM NO.
A 1	IMPACT HEAD	S3000
B 1	W-BEAM GUARDRAIL END SECTION, 12 Ga.	MCS-871303
C 1	FIRST POST TOP (6x6x1/2 Tube)	TPH171A
D 1	FIRST POST BOTTOM (6' Wx15)	TPH171B
E 1	SECOND POST ASSEMBLY TOP	UHP2A
F 1	SECOND POST ASSEMBLY BOTTOM	UHP3B
G 1	BEARING PLATE	E750
H 1	CABLE ANCHOR BOX	S760
J 1	BCT CABLE ANCHOR ASSEMBLY	E770

HARDWARE (ALL DIMENSIONS IN INCHES)	
a 2	5/16 x 1 HEX BOLT GRD 5
b 4	5/16 WASHER
c 2	5/16 HEX NUT
d 9	5/8 Dia. x 1 1/4 SPLICE BOLT (POST #2)
e 1	5/8 Dia. x 9 HEX BOLT GRD 5
f 3	5/8 WASHER
g 10	5/8 Dia. H.G.R. NUT
h 1	3/4 Dia. x 8 1/2 HEX BOLT GRD 4448
i 1	3/4 Dia. HEX NUT
j 2	1 ANCHOR CABLE HEX NUT
k 2	1 ANCHOR CABLE WASHER
l 2	1 ANCHOR BOX SHOULDER BOLT
m 8	1/2 A325 STRUCTURAL NUT
n 8	1/2 A325 STR. WASHER
o 16	1 1/16 OD x 9/16 ID A325 STR. WASHER

GENERAL NOTES:

- All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
- The lower sections of the Posts 1&2 shall not protrude more than 4 in above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
- The lower sections of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
- When competent rock is encountered, a 12" Ø post hole, 20 in. deep cored into the rock surface may be used if approved by the engineer for post 1. Granular material will be placed in the bottom of the hole, approximately 2.5" deep to provide drainage. The first post can be field cut to length.
- A site evaluation should be considered if there is less than 25' between the outlet side of the terminal and any adjacent driving lane.
- The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

<b>RST</b>		Road Systems, Inc.	
Big Spring, TX Phone: 432-263-2455 or Phone: 360-346-0721		SKT-SP-MGS Terminal Midwest Guardrail System 31" Top of Rail	
Drawing Name:	SKT-SP-S-MGS	Scale:	None
By:	JRR	Date:	05/28/09
Rev:	0		